

SUBSTITUTE FOR FORM IPC/SB/0002 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT			ATTY DOCKET NO: BOCK=9			SERIAL NO: US 10/574,084	
			FIRST INVENTOR: Elisabeth BOCK, et al.				
			FILING DATE: March 30, 2006				
			EXAMINER:			ART UNIT:	
FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)							
EXAM. INITIAL	ID	COUNTRY CODE & DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	PATENTEE OR APPLICATION	Relevant Passage(s)	T*	
	AA	WO 00/18801	April 6, 2000	RØNN, L.C.B., et al.		E	
OTHER DOCUMENTS (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.							
	AB	Atkins, A.R., Osborne, M.J., Lashuel, H.A., Edelman, G.M., Wright, P.E., Cunningham, B.A., and Dyson, H.J. (1999). "Association between the first two immunoglobulin-like domains of the neural cell adhesion molecule N-CAM". FEBS Lett. 451, 162-168.					
	AC	Atkins, A.R., Chung, J., Deechongkit, S., Little, E.B., Edelman, G.M., Wright, P.E., Cunningham, B.A., and Dyson, H.J. (2001). "Solution structure of the third immunoglobulin domain of the neural cell adhesion molecule N-CAM: can solution studies define the mechanism of homophilic binding"? J. Mol. Biol. 311, 161-172.					
	AD	Becker, J.W., Erickson, H.P., Hoffman, S., Cunningham, B.A., and Edelman, G.M. (1989). "Topology of cell adhesion molecules". Proc. Natl. Acad. Sci. USA 86, 1088-1092.					
	AE	Berezin, V., Bock, E., and Poulsen, F.M. (2000). "The neural cell adhesion molecule". Curr. Opin. Drug Discovery Dev. 3, 605-609.					
	AF	Bork, P., Downing, A.K., Kieffer, B., and Campbell, I.D. (1996). "Structure and distribution of modules in extracellular proteins". Q. Rev. Biophys. 29, 119-167.					
	AG	Brieher, W.M., Yap, A.S., and Gumbiner, B.M. (1996). Lateral dimerization is required for the homophilic binding activity of C-cadherin. J Cell Biol. 135, 487-496.					
	AH	Brünger, A.T., Adams, P.A., Clore, G.M., DeLano, W.L., Gros, P., Grosse-Kunstleve, R.W., Jiang, J-S., Kuszewski, J., Nilges, M., Pannu, N.S., Read, R.J., Rice, L.M., Simonson, T., and Warren, G.L. (1998). "Crystallography & NMR system: A new software suite for macromolecular structure determination". Acta Cryst. D54, 905-921					
	AI	Casasnovas, J.M., Stehle, T., Liu, J.H., Wang, J.H., and Springer, T.A. (1998). "A dimeric crystal structure for the N-terminal two domains of intercellular adhesion molecule-1". Proc. Natl. Acad. Sci. USA. 95, 4134-4139.					
	AJ	Chothia, C., and Jones, E.Y. (1997). "The molecular structure of cell adhesion molecules". Annu. Rev. Biochem. 66, 823-862.					
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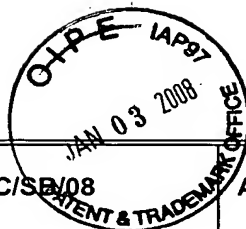
SUBSTITUTE FOR FORM IPC/SECTION 8108 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT		ATTY DOCKET NO: BOCK=9		SERIAL NO: US 10/574,084
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	AK	Cole, G.J., and Akeson, R. (1989). "Identification of a heparin binding domain of the neural cell adhesion molecule N-CAM using synthetic peptides". <i>Neuron</i> 2, 1157-1165.		
	AL	Collaborative Computational Project, number 4. (1994). "The CCP4 Suite: Programs for Protein Crystallography". <i>Acta Cryst. D50</i> , 760-763.		
	AM	Covault, J., and Sanes, J.R. (1985). "Neural cell adhesion molecule (NCAM) accumulates in denervated and paralyzed skeletal muscles". <i>Proc. Natl. Acad. Sci. USA</i> 82, 4544-4548.		
	AN	Conte, L.L., Chothia, C., and Janin, J. (1999). "The atomic structure of protein-protein recognition sites". <i>J. Mol. Biol.</i> 285, 2177-98.		
	AO	Cremer, H., Lange, R., Christoph, A., Plomann, M., Vopper, G., Roes, J., Brown, R., Baldwin, S., Kraemer, P., Scheff, S., Barthels, D., Rajewsky, K., and Wille, W. (1994). "Inactivation of the N-CAM gene in mice results in size reduction of the olfactory bulb and deficits in spatial learning". <i>Nature</i> 367, 455-459.		
	AP	Cunningham, B.A., Hemperly, J.J., Murray, B.A., Prediger, E.A., Brackenbury, R., and Edelman, G.M. (1987). "Neural cell adhesion molecule: Structure, immunoglobulin-like domains, cell surface modulation, and alternative RNA splicing". <i>Science</i> 236, 799-806.		
	AQ	Drejer J. and Schousboe A. (1989) "Selection of a pure cerebellar granule cell culture by kainate treatment". <i>Neurochem Res.</i> 14:751-4		
	AR	Edelman, G.M., and Crossin, K.L. (1991). "Cell adhesion molecules: implications for a molecular histology". <i>Annu. Rev. Biochem.</i> 60, 155-190.		
	AS	Eksterowicz JE, Evensen E, Lemmen C, Brady GP, Lancot JK, Bradley EK, Saiah E, Robinson LA, Grootenhuis PD, Blaney JM. (2002) "Coupling structure-based design with combinatorial chemistry: application of active site derived pharmacophores with informative library design". <i>J Mol Graph Model.</i> 20, 469-77.		
	AT	Flocco, M.M., and Mowbray, S.L. (1994). "Planar stacking interactions of arginine and aromatic side-chains in proteins". <i>J. Mol. Biol.</i> 235, 709-717.		
	AU	Freigang, J., Proba, K., Leder, L., Diederichs, K., Sonderegger, P., and Welte, W. (2000). "The crystal structure of the ligand binding module of axonin-1/TAG-1 suggests a zipper mechanism for neural cell adhesion". <i>Cell</i> 101, 425-433.		
	AV	Gunning, P., Leavitt, J., Muscat, G., Ng, S.Y., and Kedes, L. (1987). "A human beta-actin expression vector system directs high-level accumulation of antisense transcripts". <i>Proc. Natl. Acad. USA.</i> 84, 4831-4835.		
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	AW	Hall, A.K., and Rutishauser, U. (1987). "Visualization of neural cell adhesion molecule by electron microscopy". J. Cell Biol. 104, 1579-1586.	
	AX	Hunter, I., Sawa, H., Edlund, M., and Öbrink, B. (1996). "Evidence for regulated dimerization of cell-cell adhesion molecule (C-CAM) in epithelial cells". Biochem. J. 320, 847-853.	
	AY	Janin, J. (1997). "Specific versus non-specific contacts in protein crystals". Nature Struct. Biol. 4, 973-974.	
	AZ	Jensen, P.H., Soroka, V., Thomsen, N.K., Ralets, I., Berezin, V., Bock, E., and Poulsen, F.M. (1999). "Structure and interactions of NCAM modules 1 and 2 - basic elements in neural cell adhesion". Nature Struct. Biol. 6, 486-493.	
	BA	Jones, T.A., Zou, J.Y., Cowan, S.W., and Kjeldgaard, M. (1991). "Improved methods for building protein models in electron density maps and the location of errors in these models". Acta Crystallogr. A47, 110-119.	
	BB	Jones, E.Y., Davis, S.J., Williams, A.F., Harlos, K., and Stuart, D.I. (1992). "Crystal structure at 2.8 Å resolution of a soluble form of the cell adhesion molecule CD2". Nature 360, 232-239.	
	BC	Jones, S., and Thornton, J.M. (1996). "Principles of protein-protein interactions". Proc. Natl. Acad. Sci. USA 93, 13-20.	
	BD	Jørgensen, O.S., and Bock, E. (1974). "Brain-specific synaptosomal membrane proteins demonstrated by crossed immunoelectrophoresis". J. Neurochem. 23, 879-880.	
	BE	Kallapur, S.G., and Akeson, R.A. (1992). "The neural cell adhesion molecule (NCAM) heparin binding domain binds to cell surface heparan sulfate proteoglycans". J. Neurosci. Res. 33, 538-548.	
	BF	Kasper, C., Stahlhut, M., Berezin, V., Maar, T.E., Edvardsen, K., Kiselyov, V.V., Soroka, V., and Bock, E. (1996). "Functional characterization of NCAM fibronectin type III domains: demonstration of modulatory effects of the proline-rich sequence encoded by alternatively spliced exons a and AAG". J. Neurosci. Res. 46, 173-186.	
	BG	Kasper, C., Rasmussen, H., Kastrup, J.S., Ikemizu, S., Jones, E.Y., Berezin, V., Bock, E., and Larsen, I.K. (2000). "Structural basis of cell-cell adhesion by NCAM". Nature Struct. Biol. 7, 389-393.	
	BH	Kiselyov, V.V., Berezin, V., Maar, T., Soroka, V., Edvardsen, K., Schousboe, A., and Bock, E. (1997). "The first Immunoglobulin-like NCAM domain is involved in both double reciprocal interaction with the second Immunoglobulin-like NCAM domain and in heparin binding". J. Biol. Chem. 272, 10125-10134.	
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SUBSTITUTE FOR FORM IPC/SP/08 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT		ATTY DOCKET NO: BOCK=9 FIRST INVENTOR: Elisabeth BOCK, et al. FILING DATE: March 30, 2006 EXAMINER:	SERIAL NO: US 10/574,084 ART UNIT:
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	BI	Kleywegt, G.J., and Jones, T.A. (1996). "Phi/psi-chology: Ramachandran revisited". Structure 4, 1395-1400.	
	BJ	Kolkova, K., Novitskaya, V., Pedersen, N., Berezin, V., and Bock, E. (2000). "Neural cell adhesion molecule-stimulated neurite outgrowth depends on activation of protein kinase C and the Ras-mitogen-activated protein kinase pathway". J. Neurosci. 20, 2238-2246.	
	BK	Kostrewa, D., Brockhaus, M., D'Arcy, A., Dale, G.E., Nelboeck, P., Schmid, G., Mueller, F., Bazzoni, G., Dejana, E., Bartfai, T., Winkler, F.K., and Hennig, M. (2001). "X-ray structure of junctional adhesion molecule: structural basis for homophilic adhesion via a novel dimerization motif". EMBO J. 20, 4391-4398.	
	BL	Kraulis, P.J. (1991). "MOLSCRIPT: a program to produce both detailed and schematic plots of protein structures". J. Appl. Cryst. 24, 946-950.	
	BM	Kristiansen, L.V., Marques, F.A., Soroka, V., Rønn, L.C., Kiselyov, V., Pedersen, N., Berezin, V., and Bock E. (1999). "Homophilic NCAM interactions interfere with L1 stimulated neurite outgrowth". FEBS Lett. 464, 30-34.	
	BN	Leahy, D.J., Aukhil, I., and Erickson, H.P. (1996). "2.0 Å crystal structure of a four-domain segment of human fibronectin encompassing the RGD loop and synergy region". Cell 84, 155-164.	
	BO	Laskowski, R.A., MacArthur, M.W., Moss, D.S., and Thornton, J.M. (1993). "PROCHECK: a program to check the stereochemical quality of protein structures". J. Appl. Cryst. 26, 283-291.	
	BP	Merritt, E.A. and Bacon, D.J. (1997). "Raster3D Photorealistic Molecular Graphics". Methods Enzymol. 277, 505-524.	
	BQ	Milev, P., Friedlander, D.R., Sakurai, T., Karthikeyan, L., Flad, M., Margolis, R.K., Grummet, M., and Margolis, R.U. (1994). "Interactions of the chondroitin sulfate proteoglycan phosphacan, the extracellular domain of a receptor-type protein tyrosine phosphatase, with neurons, glia, and neural cell adhesion molecules". J. Cell Biol. 127, 1703-1715.	
	BR	Miyahara, M., Nakanishi, H., Takahashi, K., Satoh-Horikawa, K., Tachibana, K., and Takai, Y. (2000). "Interaction of nectin with afadin is necessary for its clustering at cell-cell contact sites but not for its cis dimerization or trans interactions". J. Biol. Chem. 275, 613-618.	
	BS	Muller, D., Wang, C., Skibo, G., Toni, N., Cremer, H., Calaora, V., Rougon, G., and Kiss, J.Z. (1996). "PSA-NCAM is required for activity-induced synaptic plasticity". Neuron 3, 413-422.	
	BT	Navaza, J., and Saludjian, P. (1997). "AmoRe: An automated molecular replacement program package". Methods Enzymol. 276, 581-594.	
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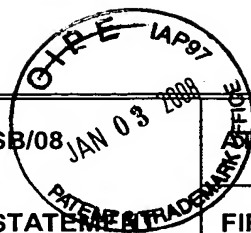
OTHER DOCUMENTS (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	BU	Nybroe, O., Moran, N., and Bock, E. (1989). "Equilibrium binding analysis of neural cell adhesion molecule binding to heparin". J. Neurochem. 52, 1947-1949.
	BV	Otwinowski, Z., and Minor, W. (1997). "Processing of X-ray diffraction data collected in oscillation mode". Methods Enzymol. 276, 307-326.
	BW	Perrakis, A., Morris, R., and Lamzin, V.S. (1999). "Automated protein model building combined with iterative structure refinement". Nature Struct. Biol. 6, 458-463.
	BX	Probstmeier, R., Kuhn, K., and Schachner, M. (1989). "Binding properties of the neural cell adhesion molecule to different components of the extracellular matrix". J. Neurochem. 53, 1794-1801.
	BY	Ranheim, T.S., Edelman, G.M., and Cunningham, B.A. (1996). "Homophilic adhesion mediated by the neural cell adhesion molecule involves multiple immunoglobulin domains". Proc. Natl. Acad. Sci. USA. 93, 4071-4075.
	BZ	Rao, Y., Wu, X-F., Garipey J., Rutishauser, Urs., and Siu, C-H. (1992). "Identification of a peptide sequence involved in homophilic binding in the neural cell adhesion molecule NCAM". J. Cell Biol. 118, 937-949.
	CA	Rao, Y., Zhao, X., and Siu, C.H. (1994). "Mechanisms of homophilic binding mediated by the neural cell adhesion molecule NCAM. Evidence for isologous interaction". J. Biol. Chem. 269, 27540-275448.
	CB	Rønn, L.C., Ralets, I., Hartz, B.P., Bech, M., Berezin, A., Berezin, V., Moller, A., and Bock, E. (2000). "A simple procedure for quantification of neurite outgrowth based on stereological principles". J. Neurosci. Meth. 100, 25-32.
	CC	Sandig, M., Rao, Y., and Siu, C-H. (1994). "The homophilic binding site of the neural cell adhesion molecule NCAM is directly involved in promoting neurite outgrowth from cultured neural retinal cells". J. Biol. Chem. 269, 14841-14848.
	CD	Shapiro, L., Fannon, A.M., Kwong, P.D., Thompson, A., Lehmann, M.S., Grubel, G., Legrand, J-F., Als-Nielsen, J., Colman, D.R., and Hendrickson, W.A. (1995). "Structural basis of cell-cell adhesion by cadherins. Nature 374, 327-337.
	CE	Soroka, V., Kiryushko, D., Novitskaya, V., Rønn, L.C., Poulsen, F.M., Holm, A., Bock, E., and Berezin, V. (2002). Induction of neuronal differentiation by a peptide corresponding to the homophilic binding site of the second Ig module of NCAM". J. Biol. Chem. 227, 24676-24683.
	CF	Su, X-D., Gastinel, L.N., Vaughn, D.E., Faye, I., Poon, P. and Bjorkman P.J. (1998). "Crystal structure of hemolin: A horseshoe shape with implications for homophilic adhesion". Science 281, 991-995.

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CG	Tomasiewicz, H., Ono, K., Yee, D., Thompson, C., Goridis, C., Rutishauser, U., and Magnuson, T. (1993). "Genetic deletion of a neural cell adhesion molecule variant (NCAM-180) produces defects in the central nervous system". <i>Neuron</i> 11, 1163-1174.
CH	Thomsen, N.K., Soroka, V., Jensen, P.H., Berezin, V., Bock, E., and Poulsen, F.M. (1996). "The three-dimensional structure of the first domain of neural cell adhesion molecule". <i>Nature Struct. Biol.</i> 3, 581-585.
CI	Wu, Y.Y., and Bradshaw, R.A. (1995). "PC12-E2 cells: a stable variant with altered responses to growth factor stimulation". <i>J. Cell. Physiol.</i> 164, 522-532.
CJ	Wu, H., Kwong, P.D., and Hendrickson, W.A. (1997). "Dimeric association and segmental variability in the structure of human CD4". <i>Nature</i> 387, 527-530.
CK	Kasper, C., et al. "Extracellular modules of the cell adhesion molecules NCAM and L1", Database HTTP://WWW-Online! 2002, XP002315066, retrieved from HTTP://WWW-HASYLAB.DESY.DE/SCIENCE/ANNUAL_REPORTS/2002_REPORT/PART2/CONTRIB/72/7824 .
CL	Huang, Z., et al. "Immunoglobulin Superfamily Proteins: Structure, Mechanisms, and Drug Discovery", <i>Biopoly</i> , vol. 43, pp. 367-382, 1997.
CM	Rønn, L.C.B., et al. "Identification of a neuritogenic ligand of the neural cell adhesion molecule using a combinatorial library of synthetic peptides" <i>Nature Biotechnology</i> , Vol. 17, October 1999, 1000-1005.
CN	Soroka, V., et al. "Structure and Interactions of NCAM Ig1-2-3 suggest a Novel Zipper Mechanism for Homophilic Adhesion" <i>Structure</i> , Vol. 10, 1291-1301, October 2003.
CO	TAKEDA, et al. "E-Cadherin functions as a cis-dimer at the cell-cell adhesive interface in vivo"; <i>Nature Structural Biology</i> ; Volume 6, Number 4, April 1999

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